

CLAIM AMENDMENTS

1 - 6. (canceled)

1 7. (previously presented) A heating element for igniting
2 a pyrotechnic charge comprising a base body, a structured strip
3 shaped resistance layer on said base body, and contact fields
4 overlapping said resistance layer at ends thereof for applying a
5 current pulse to the heating element, wherein

6 the heating element ~~[[has]]~~ having a mass of 1.0×10^{-9} kg
7 to 4.0×10^{-9} kg, a specific resistance of 1×10^{-6} Ωm to 2×10^{-6} Ωm ,
8 ~~[[and]]~~ a specific heat capacity of 100 W/(kg.K) to 400 W/(kg.K),
9 ~~and the heating element having~~ a cross sectional area of 3.5×10^{-10} m²
10 to 7.0×10^{-10} m²,

11 the resistance layer being composed of a sintered Ag/Pd
12 resistance paste or a sintered Ag/Au/Pd resistance paste containing
13 30 to 50 mass% Ag and 35 to 50 mass % Pd, or a sintered Pt/W resis-
14 tance paste containing 70 to 90 mass % Pt and 5 to 20 mass% W,

15 the base body ~~[[is]]~~ being composed of a high-
16 temperature-resistant glass or glass-ceramic or ceramic with a
17 thermal conductivity of at most 2 W/(m.K), and

18 the contact fields ~~[[are]]~~ being composed of sintered
19 AgPd or AgPt thick-layer conductor paste with Pd or Pt proportions
20 between 1 and 10 mass%.

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1 8. (currently amended) A heating element for igniting a
2 pyrotechnic charge comprising

3 a base body, a structured strip shaped resistance layer
4 on said base body, and contact fields overlapping said resistance
5 layer at ends thereof for applying a current pulse to the heating
6 element, wherein

7 the heating element ~~[[has]]~~ having a mass of 1.0×10^{-9} kg
8 to 4.0×10^{-9} kg, a specific resistance of $1 \times 10^{-6} \Omega \text{m}$ to $2 \times 10^{-6} \Omega \text{m}$,
9 ~~[[and]]~~ a specific heat capacity of 100 W/(kg.K) to 400 W/(kg.K),
10 ~~and the heating element having~~ a cross sectional area of $3.5 \times 10^{-10} \text{ m}^2$
11 to $7.0 \times 10^{-10} \text{ m}^2$,

12 the resistance layer being composed of a sintered Ag/Pd
13 resistance paste or a sintered Ag/Au/Pd resistance paste containing
14 30 to 50 mass% Ag and 35 to 50 mass % Pd, or a sintered Pt/W resis-
15 tance paste containing 70 to 90 mass % Pt and 5 to 20 mass% W,

16 the base body being composed of a high-temperature-
17 resistant glass or glass-ceramic or ceramic with a thermal
18 conductivity of at most 3 W/(m.K),

19 a heat barrier being applied to said base body which is
20 comprised of a glass or glass-ceramic layer of a thickness of 20 to
21 80 μm and a thermal conductivity of at most 1.5 W/(m.K), and

22 the contact fields being composed of sintered AgPd or
23 AgPt thick-layer conductor paste with Pd or Pt proportions between
24 1 and 10 mass%.

9 -- 13 (canceled)